

STN SEARCH TRANSCRIPT

10/604777

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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * * Welcome to STN International * * * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
NEWS 4 FEB 28 PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS 5 FEB 28 BABS - Current-awareness alerts (SDIs) available
NEWS 6 FEB 28 MEDLINE/LMEDLINE reloaded
NEWS 7 MAR 02 GBFULL: New full-text patent database on STN
NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 9 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 10 MAR 22 KOREPAT now updated monthly; patent information enhanced
NEWS 11 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 12 MAR 22 PATDPASPC - New patent database available
NEWS 13 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS 14 APR 04 EPFULL enhanced with additional patent information and new fields
NEWS 15 APR 04 EMBASE - Database reloaded and enhanced
NEWS 16 APR 18 New CAS Information Use Policies available online
NEWS 17 APR 25 Patent searching, including current-awareness alerts (SDIs), based on application date in CA/Cplus and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS 18 APR 28 Improved searching of U.S. Patent Classifications for U.S. patent records in CA/Cplus

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 14:29:16 ON 29 APR 2005

```
=> FIEL REG  
FIEL IS NOT A RECOGNIZED COMMAND  
The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (>).
```

```
=> FILE REG  
COST IN U.S. DOLLARS  
SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 0.21 0.21
```

```
FILE 'REGISTRY' ENTERED AT 14:29:26 ON 29 APR 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2005 American Chemical Society (ACS)
```

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

```
STRUCTURE FILE UPDATES: 28 APR 2005 HIGHEST RN 849459-72-9  
DICTIONARY FILE UPDATES: 28 APR 2005 HIGHEST RN 849459-72-9
```

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

```
*****  
*  
* The CA roles and document type information have been removed from *  
* the IDE default display format and the ED field has been added, *  
* effective March 20, 2005. A new display format, IDERL, is now *  
* available and contains the CA role and document type information. *  
*  
*****
```

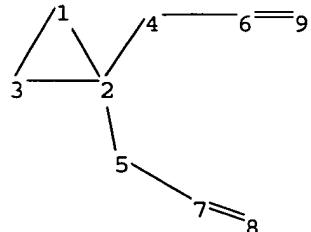
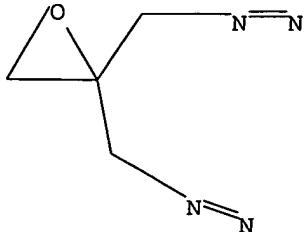
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=> ....Testing the current file.... screen
```

```
ENTER SCREEN EXPRESSION OR (END):end
```

```
=>  
Uploading C:\Program Files\Stnexp\Queries\ENERGETIC OXIRANE.str
```



chain nodes :

```

4 5 6 7 8 9
ring nodes :
1 2 3
chain bonds :
2-4 2-5 4-6 5-7 6-9 7-8
ring bonds :
1-2 1-3 2-3
exact/norm bonds :
1-2 1-3 2-3 4-6 5-7 6-9 7-8
exact bonds :
2-4 2-5

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

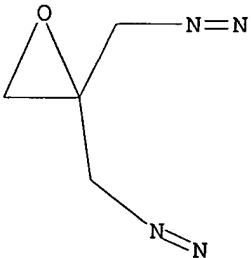
```

```
L1      STRUCTURE UPLOADED
```

```
=> que L1
```

```
L2    QUE L1
```

```
=> D L2
L2 HAS NO ANSWERS
L1      STR
```



```
Structure attributes must be viewed using STN Express query preparation.
L2      QUE ABB=ON PLU=ON L1
```

```
=> S L2 SSS FULL
FULL SEARCH INITIATED 14:29:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      43 TO ITERATE
```

```
100.0% PROCESSED      43 ITERATIONS          1 ANSWERS
SEARCH TIME: 00.00.01
```

```
L3      1 SEA SSS FUL L1
```

| | | |
|----------------------|------------|---------|
| => FILE CAPLUS | SINCE FILE | TOTAL |
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| FULL ESTIMATED COST | 161.33 | 161.54 |

```
FILE 'CAPLUS' ENTERED AT 14:29:43 ON 29 APR 2005
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```

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FILE COVERS 1907 - 29 Apr 2005 VOL 142 ISS 19
FILE LAST UPDATED: 28 Apr 2005 (20050428/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

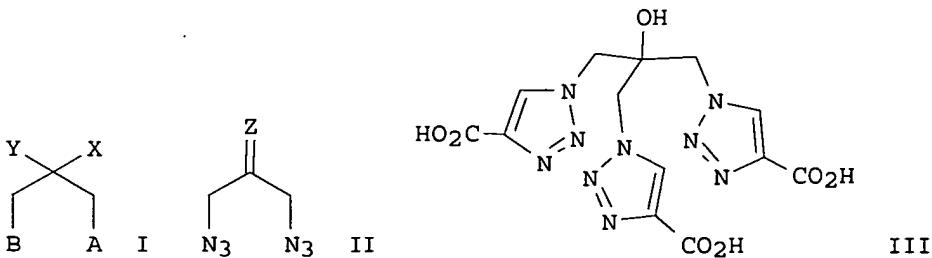
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L3
L4 3 L3

=> D 1-3 IBIB ABS HITSTR

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:29032 CAPLUS
DOCUMENT NUMBER: 142:114074
TITLE: Preparation of polyazido carboxylic acid esters
INVENTOR(S): Dave, Paritosh R.; Duddu, Raja G.; Damavarapu, Reddy;
Gelber, Nathaniel; Yang, Kathy; Surapaneni, C. Rao
PATENT ASSIGNEE(S): United States Dept. of the Army, USA
SOURCE: U.S., 9 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------|-------|----------|-----------------|------------|
| ----- | ----- | ----- | ----- | ----- |
| US 6841690 | B1 | 20050111 | US 2003-604778 | 20030815 |
| PRIORITY APPLN. INFO.: GI | | | US 2002-319801P | P 20021219 |

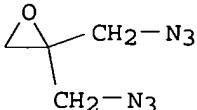


AB This invention relates to a series of novel compds., such as I [X = N3, OH, ONO2, NO2; Y = CH2N3, NO2; A, B = N3, 4-carboxytriazolomethyl], and II [Z = CH2, O, NOH, 2,4-dihydrophenylhydrozono], including 2-azido-2-azidomethyl-1,3-diazidopropane, 2-azidomethyl-2-hydroxy-1,3-diazidopropane, 2-azidomethyl-2-nitrato-1,3-diazidopropane, 2-azidomethyl-2-nitro-1,3-diazidopropane, 2,2-dinitro-1,3-diazidopropane, methallylidiazide, a dimer of methallylidiazide, comprising 3a,8a-bis-azidomethyl-3a,4,8a,9-tetrahydro-3H,8H-bis[1,2,3]triazolo[1,5-a;

1'',5''-d]pyrazine, 1,3-diazidoacetone, and 2-oximido-1,3-diazidopropane. Also shown are reaction intermediates of these compds., including 2,2-bis(chloromethyl)oxirane, and 2,2-bis(azidomethyl)oxirane. In addition, a number of potentially useful energetic compds. have been prepared from the low mol. weight polyazido compds. above, including N-2(azido-1-azidomethyl-ethyldene)-N'''-(2,4-dinitrophenyl)-hydrazine (7-DNPH), 1,3-bis(4-carboxytriazolyl)2,2-dinitropropane, tris(4-carboxytriazolomethyl)methanol, benzene-1,3,5-tricarboxylic acid tris(2-azido-1,1-bisazidomethyl-ethyl)ester, adamantanate 1,3,5,7-tetracarboxylic acid tetrakis(2-azido-1,1-bisazidomethyl-ethyl)ester, adamantan carboxylic acid (2-azido-1,1-bisazidomethyl-ethyl)ester, cubane 1,3,5,7-tetracarboxylic acid tetrakis(2-azido-1,1-bisazidomethyl-ethyl)ester, cubane 1,4-dicarboxylic acid bis(2-azido-1,1-bisazidomethyl-ethyl)ester. Thus, tris(4-carboxytriazolomethyl)methanol (III) was prepared by the reaction of 2-azidomethyl-2-hydroxy-1,3-diazidopropane I [A, B = N3; X = CH₂N3; Y = OH] (also prepared) with propionic acid.

IT 481067-60-1P, 2,2-Bis(azidomethyl)oxirane
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of polyazido carboxylic acid esters derived from methallyl dichloride)

RN 481067-60-1 CAPLUS
CN Oxirane, 2,2-bis(azidomethyl)- (9CI) (CA INDEX NAME)

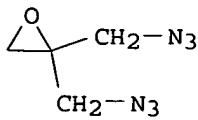


REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:137939 CAPLUS
DOCUMENT NUMBER: 140:357709
TITLE: Preparation of cage molecule based polyazido core units for dendrimer synthesis
AUTHOR(S): Dave, Paritosh R.; Duddu, Raja; Yang, Kathy; Damavarapu, Reddy; Gelber, Nathaniel; Surapaneni, Rao; Gilardi, Richard
CORPORATE SOURCE: GEO-CENTERS, INC. at ARDEC, Picatinny Arsenal, NJ, 07806-5000, USA
SOURCE: Tetrahedron Letters (2004), 45(10), 2159-2162
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Core mols. based on benzene-, cubane-, and adamantan polycarboxylates with peripheral polyazido substitution were prepared. The first synthesis of 1,3-diazidoacetone and its conversion to the corresponding oxime, DNPH, and 2,2-dinitro derivs. is also reported. All azido compds. should be considered dangerous and proper precautions should be taken during handling and storage of these mols.

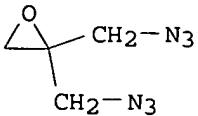
IT 481067-60-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of peripheral polyazido and benzene and cubane and adamantan core unit cages for triazole and tetrazole containing dendrimer synthesis)

RN 481067-60-1 CAPLUS
CN Oxirane, 2,2-bis(azidomethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:605702 CAPLUS
 DOCUMENT NUMBER: 138:75615
 TITLE: Novel polyazido/polynitrato compounds derived from methallyl dichloride
 AUTHOR(S): Surapaneni, Rao; Damavarapu, Reddy; Duddu, Raja; Dave, Paritosh R.; Gilardi, Richard D.
 CORPORATE SOURCE: US Army Armament Research Development and Engineering Center, Picatinny Arsenal, NJ, 07806-5000, USA
 SOURCE: International Annual Conference of ICT (2002), 33rd(Energetic Materials), 147/1-147/5
 CODEN: IACIEQ; ISSN: 0722-4087
 PUBLISHER: Fraunhofer-Institut fuer Chemische Technologie
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Several polynitrato and polyazido compds., derived from a lower homolog of pentaerythritol and have one less methylene unit, were synthesized in order to develop lead-free primary explosives. The compds. were derived from methallyl dichloride by such reactions as epoxidn., nucleophilic substitution, and ring-opening nitration. Nitration. These compds. are of potential interest as energetic plasticizers and their multiple functional groups can be exploited to prepare novel dendritic structures.
 IT 481067-60-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and reactions of; novel polyazido-polynitrato compds.
 derived from methallyl dichloride by epoxidn., nucleophilic
 substitution, and ring-opening nitration)
 RN 481067-60-1 CAPLUS
 CN Oxirane, 2,2-bis(azidomethyl)- (9CI) (CA INDEX NAME)



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| FULL ESTIMATED COST | 15.27 | 176.81 |
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| | ENTRY | SESSION |

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